

Serial No.: 10/005,968

Attorney Docket No.: 2001P4224US01 US

IN THE CLAIMS:

This listing of the claims will replace all prior versions and listings of the claims in the application:

1. (Currently Amended) A system, comprising:
a transmitter including a power amplifier; and
a power controller adapted to receive a coupler value of a power level at said output of said power amplifier if said power level is above a predetermined low power threshold and, if the coupler value is not equal to a set value, adjust a control value until the coupler value substantially equals the set value; and perform a low power extrapolation if said power level is below a predetermined threshold.
2. (Previously Presented) A system in accordance with claim 1, an output of said power controller adapted to control a setting of said power amplifier.
3. (Currently Amended) A method for use in a telecommunications transmitter, comprising:
initializing nominal transmit power, coupler, and transmit DAC values; [[:]]
specifying a set power level;
setting a transmit DAC with said initial transmit DAC value;
determining an output of a power coupler;
comparing said output to a nominal value;
adjusting said transmit DAC such that said output matches said nominal value;
extrapolating past transmit DAC values to set said transmit DAC if said set power level is less than a predetermined low power threshold.
4. (Original) A method in accordance with claim 3, wherein said threshold defines a linear region of a coupler vs. transmit power response.

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5. (Currently Amended) A radio transmitter system, comprising:
a transmitter having a variable gain amplifier; and
means for adjusting a gain level of said variable gain amplifier based on a coupler output value if said power measurement is greater than a predetermined ~~low power~~ threshold.
6. (Original) A radio transmitter system in accordance with claim 5, said adjusting means further comprising means for extrapolating a low power level.
7. (Original) A radio transmitter system in accordance with claim 6, said adjusting means further including a slope calculation unit adapted to provide a power curve value to said extrapolating means if a power measurement is less than said predetermined threshold.
8. (Currently Amended) A system, comprising:
a transmitter including a power amplifier; and
a power controller adapted to adjust a power level based on a low power extrapolation of a power measurement if said power level is below a predetermined ~~low power~~ threshold.
9. (Previously Presented) A system in accordance with claim 8, said power controller further adapted to adjust a set power value based on an output of a power adjustment unit.
10. (Previously Presented) A system in accordance with claim 9, wherein said low power extrapolation is derived from a past values on a power curve.

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11. (Currently Amended) A system comprising:
a transmitter including a power amplifier;
a level detector adapted to determine a power level with respect to a low power threshold;

a power controller adapted to adjust a power level based on a low power extrapolation of a coupler output if said power level is below said low power threshold.

12. (Original) A system in accordance with claim 11, wherein said power controller is adapted to adjust a gain level of a power amplifier.

13. (Original) A system in accordance with claim 12, wherein determining said extrapolation comprises determining a value of an output power curve using past measured values of said output power.

14. (Currently Amended) A telecommunications device, comprising:
a transmitter including a power amplifier controlled via a transmit DAC;
a level detector adapted to determine a power level with respect to a low power threshold;
a power controller adapted to adjust a value of said transmit DAC based on a low power extrapolation of a coupler output if said power level is below said low power threshold; and

wherein said power controller is adapted to adjust a value of said transmit DAC based on said output of said power coupler if said set power level is above said low power threshold.